DOCKET NO. 5196/260

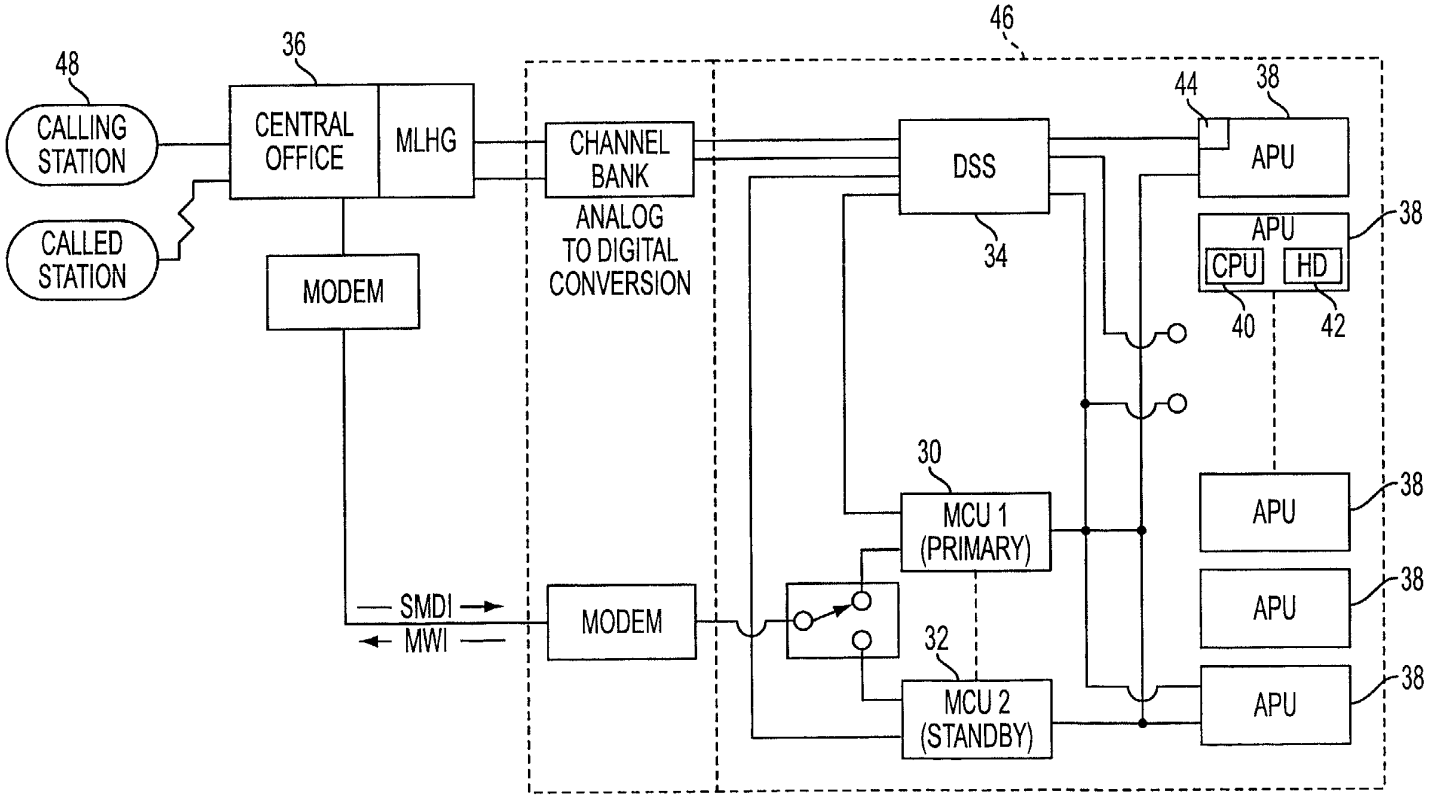

FIG. 1
(PRIOR ART)

08827 "5960260

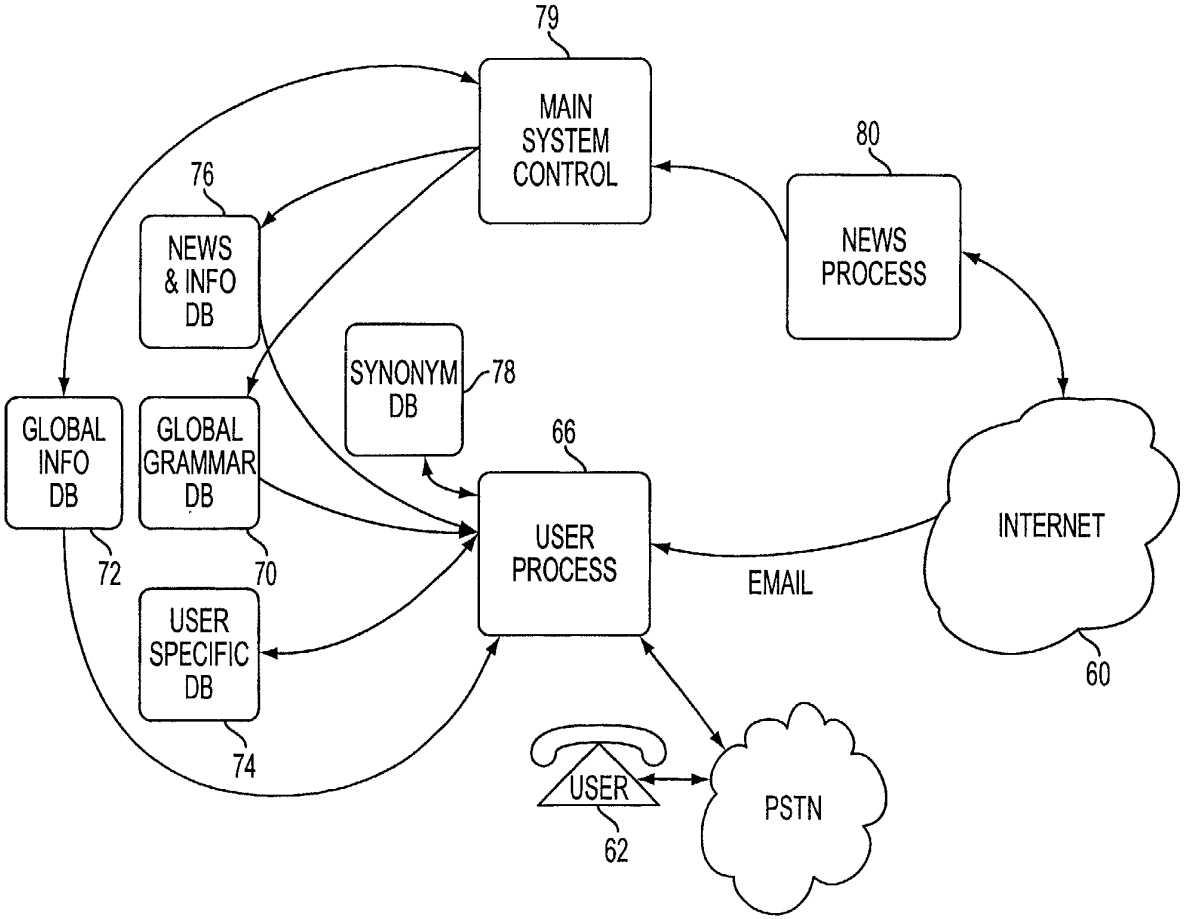

FIG. 2

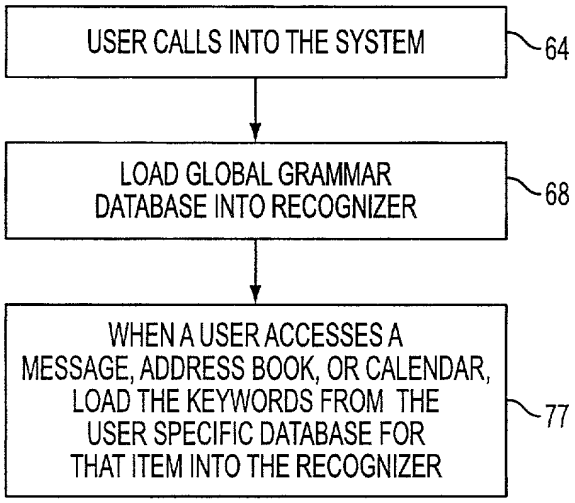
USER CALLS INTO THE SYSTEM
64
LOAD GLOBAL GRAMMAR DATABASE INTO RECOGNIZER
68
WHEN A USER ACCESSES A MESSAGE, ADDRESS BOOK, OR CALENDAR, LOAD THE KEYWORDS FROM THE USER SPECIFIC DATABASE FOR THAT ITEM INTO THE RECOGNIZER
77

FIG. 3

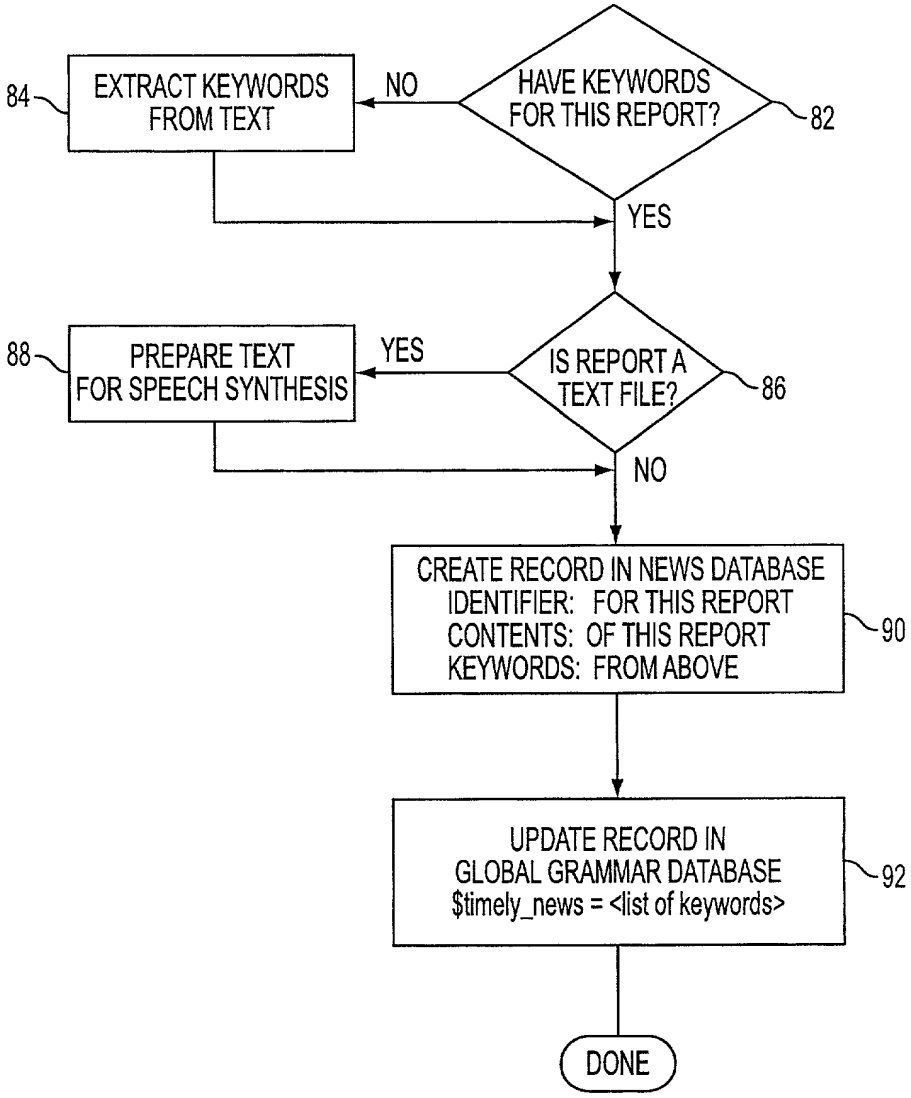
HAVE KEYWORDS FOR THIS REPORT?
82
NO
EXTRACT KEYWORDS FROM TEXT
84
YES
IS REPORT A TEXT FILE?
86
YES
PREPARE TEXT FOR SPEECH SYNTHESIS
88
NO
CREATE RECORD IN NEWS DATABASE
IDENTIFIER: FOR THIS REPORT
CONTENTS: OF THIS REPORT
KEYWORDS: FROM ABOVE
90
UPDATE RECORD IN GLOBAL GRAMMAR DATABASE
$timely_news = <list of keywords>
92
DONE

FIG. 4

NEWS DATABASE

<identifier> <content> <keyword list> <when obtained>

GLOBAL GRAMMAR DATABASE

$timely_news = <current news keywords>
$news = ((tell me about [the]) | (what is happening in)) $timely_news
$weather = what is the (forecast for | weather in) $user_weather_cities
$trains = when are the trains to $user_train_cities
$flights = when are the flights to $user_flight_cities

GLOBAL INFORMATION DATABASE

$weather_cities = Boston | San Francisco | Paris | Tel Aviv | Somerville | ...
$airline_cities = Boston | San Francisco | Paris | Tel Aviv | ...
$train_cities = Boston | San Francisco | Paris | Amsterdam | ...

USER SPECIFIC DATABASE

<type> <contents> <keywords>

type = email, calendar, address book, voice mail
contents = <actual text>
keywords = <type> <value>
ktype = user_weather_city, user_train_city, user_flight_city

FIG. 5

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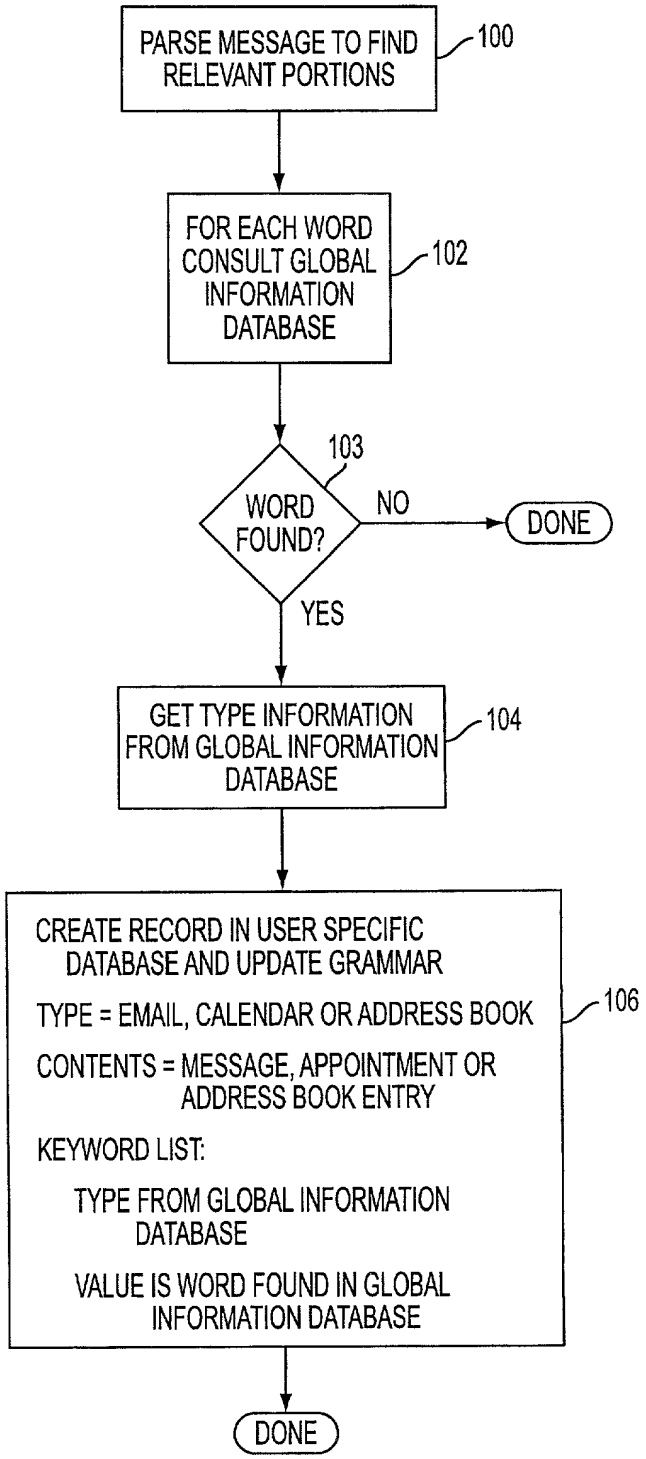
PARSE MESSAGE TO FIND RELEVANT PORTIONS
100
FOR EACH WORD CONSULT GLOBAL INFORMATION DATABASE
102
103
WORD FOUND?
NO
DONE
YES
GET TYPE INFORMATION FROM GLOBAL INFORMATION DATABASE
104
CREATE RECORD IN USER SPECIFIC DATABASE AND UPDATE GRAMMAR
TYPE = EMAIL, CALENDAR OR ADDRESS BOOK
CONTENTS = MESSAGE, APPOINTMENT OR ADDRESS BOOK ENTRY
KEYWORD LIST:
TYPE FROM GLOBAL INFORMATION DATABASE
VALUE IS WORD FOUND IN GLOBAL INFORMATION DATABASE
106
DONE

FIG. 6